

Message Text

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C O N F I D E N T I A L STATE 203430

E.O. 11652: XGDS - 1

TAGS: ESTC, COCOM, JA, UR

SUBJECT: JAPANESE ELECTRODE VACUUM ARC FURNACE TO THE
USSR - IL 1203

REF: COCOM DOC. (76) 621

1. OBJECT. CIVIL USE OF EQUIPMENT CANNOT BE ASSURED AND
THERE IS CONSIDERABLE LIKELIHOOD OF DIVERSION TO
STREGIC USES, I.E. PRODUCTION OF SUPER ALLOYS. WE
ARE UNABLE ACCEPT STATED END USE, MANUFACTURE OF ROTOR
SHAFTS FOR ELECTRIC GENERATORS AND ROLLS FOR ROLLING
MILLS, SINCE MOST ECONOMIC AND BEST METHOD FOR PRODUCING
HIGH QUALITY STEEL ROTOR SHAFTS AND ROLLERS WOULD BE
ELECTROSLAG REMELTING (ESR). SOVIETS ARE WORLD LEADERS
IN ELECTROSLAG REMELTING TECHNOLOGY. IN ADDITION SOVIETS
HAVE LARGE CAPACITY VACUUM ARC REMELTING FURNACES THAT
WOULD BE EXCELLENT FOR STATED END USE. ON THE OTHER HAND,
SOVIETS HAD DIFFICULTIES IN MELTING NICKEL-BASE SUPERALLOYS
FOR AEROSPACE APPLICATIONS SUCH AS MILITARY TURBOJET
ENGINES. THE SOVIETS HAVE HAD PROBLEMS CAUSED BY
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INADEQUATE VACUUM PUMPING SYSTEMS TO EXHAUST GASES FROM

THE MELT, POOR CONTROL SYSTEMS TO FEED THE MATERIAL INTO
THE MELT AND POOR SEGREGATION CONTROL SYSTEMS. THE
JAPANESE EQUIPMENT WOULD NOT HAVE ANY OF THESE PROBLEMS
AND WOULD PERMIT THE SOVIETS TO GAIN EXPERIENCE IN THE
PRODUCTION IN LARGE QUANTITIES OF HIGH QUALITY NICKEL-
BASE ALLOYS; AN AREA WHERE THEY HAVE NOT BEEN ABLE TO
CATCH UP TO WESTERN CAPABILITIES. KISSINGER

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